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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/529,243 | 03/25/2005 | Lauri Loven | 3501-1096 | 8635 |
| <small>465</small> YOUNG & THOMPSON 209 Madison Street Suite 500 ALEXANDRIA, VA 22314 | | | <small>7590</small> EXAMINER ANDERSON, KELLYE B | |
| | | | ART UNIT 2165 | PAPER NUMBER |
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/529,243

Applicant(s)

LOVEN ET AL.

Examiner

KELLYE ANDERSON

Art Unit

2165

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 25 March 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 8-15 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 8-15 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 25 March 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-850)
- Paper No(s)/Mail Date March 25, 2005
- 4) ☐ Interview Summary (PTO-413)
- Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Priority

1. As required by M.P.E.P. 201.14(c), acknowledgement is made of applicant's claim for priority based on applications filed on September 25, 2002. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

2. As required by **M.P.E.P. 609(C)**, the applicant's submissions of the Information Disclosure Statement dated March 25, 2005 is acknowledged by the examiner and the cited references have been considered in the examination of the claims now pending. As required by **M.P.E.P 609 C(2)**, a copy of the PTOL-1449 initialed and dated by the examiner is attached to the instant office action.

Oath/Declaration

3. The applicant's oath/declaration has been reviewed by the examiner and is found to conform to the requirements prescribed in **37 C.F.R. 1.63**.

Drawings

4. The applicant's drawings submitted are acceptable for examination purposes.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 8-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sugikawa et al. US Patent 5,949,772 in view of Amano 2002/0120647.

Regarding claim 8, Sugikawa et al. teach a method of processing service requests in an information system including a common access point and at least two service sources offering services, said method comprising:

receiving a service request at said access point (column 6, lines 61-64, interpretation of access point will be the point at which the service is requested, i.e. the service request is transmitted from any communication device), analyzing said service request at said access point in order to identify a predetermined keyword indicating a service source offering the requested service (column 11, lines 31-34, predetermined service data, i.e. interpret data as a keyword), forwarding said service request to a service source identified in said analysis (column 11, lines 41-65, data processing sections, B, C, D, and E), analyzing said service request at said service source in order

to identify the requested service, providing said identified service (column 12, lines 8-23 , the control unit analyzes the destination device identification data of the received data), storing, in a memory, said service request if the service request has led to successful identification of the requested service (column 11, lines 25-37, storing records data about service request programs and services), and providing an identified service to the source of the service request if a service can be identified (column 11, lines 25-37, storing records data about service request programs and services), however, he does not teach initiating an error correction process to correct the received service request by utilizing service requests stored in said memory, if said analyzing at said access point or said analyzing at said service source fails for the received service request, as no service source or no service can be identified, and repeating said analyzing at the access point and/or service source for the corrected service request.

Amano disclose initiating an error correction process to correct the received service request by utilizing service requests stored in said memory (paragraph 1—20, predetermine elements from application data that are recognized that they are incorrectly generated based on the stored application data), if said analyzing at said access point or said analyzing at said service source fails for the received service request , as no service source or no service can be identified, and repeating said analyzing at the access point and/or service source for the corrected service request (paragraph 83, if two values don't match, a check is perform and automatic correction is done, unless its disabled then its processed manually).

It would be obvious to one of ordinary skill in the art at the time the invention was made to incorporate Amano's application data error correction support into Sugikawa et al. communication device because there is a need to prevent errors or incorrect conversions that tend to occur during the re-input of text employing a use for writing data or sentences or to detect and correct errors as taught by Amano (paragraph 12).

Regarding claim 9, Sugikawa et al further teaches a method according to claim 8, wherein the correction of a received service request is carried out by comparing the contents of the received service request with the contents of the stored service requests,

selecting the stored service request which, based on the comparison, is closest to the received service request (column 7, lines 40-46, selecting a communication device based on the request submitted), however, he does not substitute at least a part of the contents of the received service request with at least a part of the contents of the selected service request.

Amano disclose a substitute at least a part of the contents of the received service request with at least a part of the contents of the selected service request (paragraph 23, replacing the information based on what is recognized by the recognizer).

It would be obvious to one of ordinary skill in the art at the time the invention was made to incorporate Amano's application data error correction support into Sugikawa et al. communication device because there is a need to prevent errors or incorrect conversions that tend to occur during the re-input of text employing a use for writing data or sentences or to detect and correct errors as taught by Amano (paragraph 12).

Regarding claim 10. Sugikawa et al. teach an information system comprising:
subscriber stations,

at least two service sources providing a respective service to subscriber stations of the system (column 11, lines 41-65, data processing sections, B, C, D, and E), and an access point providing said subscriber stations with access to services offered by said service sources (column 6, lines 61-64, interpretation of access point will be the point at which the service is requested, i.e. the service request is transmitted from any communication device), said access point being arranged to analyze a service request received from a subscriber station in order to identify a predetermined keyword indicating the service source offering the requested service (column 11, lines 31-34, predetermined service data, i.e. interpret data as a keyword), and to forward said service request to the service source offering said service (column 11, lines 41-65, data processing sections, B, C, D, and E), said service sources being connected to the access point in order to receive a service request forwarded by said access point (column 6, lines 61-64, having access to the service request), and arranged to analyze a received service request in order to identify the requested service and to provide the subscriber station with the requested service, said system further comprising: a memory for storing service requests which have led to successful identification of the requested service (column 11, lines 25-37, storing records data about service request programs and services), however, Sugikawa et al. does not teach an error correction device arranged to correct a received service request by utilizing the service requests stored in the memory, if said analyzing at said access point or said analyzing at said service

source fails for the received service request, as no service source or no service can be identified, wherein said access point is arranged to process the corrected service request by carrying out said analyzing and forwarding to a service source, and said service sources are arranged to carry out said analyzing in order to identify the requested service and to provide the service to the subscriber station having transmitted the service request, when receiving such a corrected service request.

Amano disclose an error correction device arranged to correct a received service request by utilizing the service requests stored in the memory (paragraph 1—20, predetermine elements from application data that are recognized that they are incorrectly generated based on the stored application data), if said analyzing at said access point or said analyzing at said service source fails for the received service request, as no service source or no service can be identified (paragraph 83, if two values don't match, a check is perform and automatic correction is done, unless its disabled then its processed manually), wherein said access point is arranged to process the corrected service request by carrying out said analyzing and forwarding to a service source (paragraph 14, correcting errors that are recognized to be incorrect based on the predetermine input data), and said service sources are arranged to carry out said analyzing in order to identify the requested service (paragraph 14, correcting errors that are recognized to be incorrect based on the predetermine input data)and to provide the service to the subscriber station having transmitted the service request, when receiving such a corrected service request (paragraph 65, transmitted the electronic data based on the service request).

It would be obvious to one of ordinary skill in the art at the time the invention was made to incorporate Amano's application data error correction support into Sugikawa et al. communication device because there is a need to prevent errors or incorrect conversions that tend to occur during the re-input of text employing a use for writing data or sentences or to detect and correct errors as taught by Amano (paragraph 12).

Regarding claim 11, Sugikawa et al. further teach an information system according to claim 10, wherein said error correcting device is arranged to compare the contents of the received service request with the contents of the service requests stored in said memory (column 11, lines 25-37, storing records data about service request programs and services), to select the stored service request which, based on the comparison, is closest to the received service request (column 7, lines 40-46, selecting a communication device based on the request submitted), however, he does not teach to substitute at least a part of the contents of the received service request with at least a part of the contents of the selected service request.

Amano disclose a substitute at least a part of the contents of the received service request with at least a part of the contents of the selected service request (paragraph 23, replacing the information based on what is recognized by the recognizer).

It would be obvious to one of ordinary skill in the art at the time the invention was made to incorporate Amano's application data error correction support into Sugikawa et al. communication device because there is a need to prevent errors or incorrect

conversions that tend to occur during the re-input of text employing a use for writing data or sentences or to detect and correct errors as taught by Amano (paragraph 12).

Regarding claim 12, Sugikawa et al. further teach an information system according to claim 10, wherein said access point is connected to a mobile communication system (column 6, lines 61-64, interpretation of access point will be the point at which the service is requested, i.e. the service request is transmitted from any communication device, i.e. examiner interprets communication device to be a mobile communication device), said subscriber stations are subscriber stations of the mobile communication system (column 6, lines 61-64, interpretation of access point will be the point at which the service is requested, i.e. the service request is transmitted from any communication device), and the service requests are messages transmitted with said subscriber stations via the mobile communication system to the access point (column 6, lines 61-64, interpretation of access point will be the point at which the service is requested, i.e. the service request is transmitted from any communication device).

Regarding claim 13, Sugikawa et al. further teach an information system according to claim 11, wherein said access point is connected to a mobile communication system (column 6, lines 61-64, interpretation of access point will be the point at which the service is requested, i.e. the service request is transmitted from any communication device), said subscriber stations are subscriber stations of the mobile communication system (column 6, lines 61-64, interpretation of access point will be the point at which the service is requested, i.e. the service request is transmitted from any communication device), and the service requests are messages transmitted with said

subscriber stations via the mobile communication system to the access point (column 6, lines 61-64, interpretation of access point will be the point at which the service is requested, i.e. the service request is transmitted from any communication device).

Regarding claim 14, Sugikawa further teach an information system according to claim 10, wherein at least one of said service sources provides a service involving transmission of data to a subscriber station which has transmitted a service request (column 7, lines 16-33, communication device that transmit service request), said service source comprising a database containing data (column 9, lines 20-23, memory that stores documentary and diagrammatic output data), and that said service source is arranged to analyze a received service request in order to identify the requested service, to retrieve, from said database (column 12, lines 8-23, the control unit analyzes the destination device identification data of the received data), data associated with the identified service request, and to transmit said retrieved data via said information system to said subscriber station request (column 7, lines 16-33, communication device that transmit service request).

Regarding claim 15, Sugikawa et al. teach an error correction device arranged to correct a received service request by utilizing information stored in a memory, said error correction device is arranged to:

receive and store, in said memory, service requests which have led to successful identification of the requested service (column 11, lines 25-37, storing records data about service request programs and services), however, he does not teach correct the

contents of a received service request by utilizing the service requests stored in the memory, and transmit said corrected service request for further processing.

Amano disclose correcting the contents of a received service request by utilizing the service requests stored in the memory (paragraph 1- 20, predetermine elements from application data that are recognized that they are incorrectly generated based on the stored application data and (paragraph 14, correction is made based on the application data written in a markup description language), and transmit said corrected service request for further processing (paragraph 108, transmit to another user via multiple intermediates (systems and persons).

It would be obvious to one of ordinary skill in the art at the time the invention was made to incorporate Amano's application data error correction support into Sugikawa et al. communication device because there is a need to prevent errors or incorrect conversions that tend to occur during the re-input of text employing a use for writing data or sentences or to detect and correct errors as taught by Amano (paragraph 12).

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- a. Kao et al. (US Patent 5,200,962) a combined data compression/error correction system suitable for use in synchronous communication utilizes a data compressor to produce variable rate compressed data from synchronous data. The variable rate compressed data is applied to a FIFO memory which is monitored to determine when the amount of data in the FIFO drops below a predetermined threshold.
- b. Suzuki (US Publication 2002/0026389) an object of the present invention is to provide a shopping system which allows a user to designate a retrieval priority item and allows a retrieval information service terminal to narrow down information, thereby easily retrieving a target commodity at the time of providing the user a retrieval information list.
- c. Grube (US Patent 5509075) A method for detecting unauthorized use of a communication unit in a secure wireless communication system includes receiving, by a central controller, a service request from the communication unit via the wireless communication system.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KELLYE ANDERSON whose telephone number is 571-

270-1756. The examiner can normally be reached on Monday- Friday, 7:30-5:00 EST alt Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christian Chace can be reached on 571-272-4190. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

June 17, 2008

/Kellye Anderson/
Examiner, Art Unit 2165

/Christian P. Chace/

Supervisory Patent Examiner, Art Unit 2165